

FEATURES OF DRIP IRRIGATION OF CROPS

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Annotation: *Melons grown in our country contain 85-92% water, 8-15% dry matter, 0.8% protein, 1.8% fiber, 6.2% other carbohydrates, 0.9% oil, 0.6% ash, Contains 20-30 mg% ascorbic acid, 0.03-0.07 mg% other drugs, trace elements such as phosphorus, sulfur, manganese, zinc, bromine, iron, calcium, magnesium, potassium, pectin, organic and mineral salts. The content of sugar in the fruits of melons of Uzbekistan reaches 14-16%.*

Keywords: *melon crops, physical properties of soil, nutrients in the soil, melon root, melon seeds.*

INTRODUCTION

Uzbekistan, as the country with the largest irrigated land area and the largest population in the region, faces particular challenges in terms of water resources provision. Only about 18% of the volume of water resources needed to cover the country's needs is formed within the country, and the main part is covered by the resources of transboundary rivers - Amudarya and Syrdarya. Recently, water shortage is becoming a limiting factor in the development of agriculture 98% of the irrigated lands of Bukhara region are irrigated by pumps, water shortage in the region has a great impact on crop yields, in order to prevent this, it is advisable to use improved modern economical irrigation technologies.

In the Action Strategy of the Republic of Uzbekistan for 2017-2021, special attention is paid to the further improvement of the reclamation condition of irrigated lands, the development of the network of reclamation and irrigation facilities, the wide introduction of intensive methods, first of all, modern agro-technologies that save water and resources in the field of agricultural production. In this regard, it is important to expand the scientific research work on mitigating the water shortage, studying the influence of the soil melioration condition through the effective use of collector water, and introducing it into production.

For watering the soil, drops with a maximum water flow of 1.2 - 2.4 l / h are used. In this case, the maximum size of the wetted surface diameter is from 0.3-0.5 m in sandy soil and up to 1.2 m in loam;

The shallow but wide root system of watermelons and melons can extend beyond the irrigation radius. It is recommended to use a shelter for this area with non-woven

material or straw, which reflects ultraviolet rays and does not overheat the soil, to preserve moisture in the corridors;

The depth of moisture and the rate of watering depends on the stage of development of the plant and the type of soil. At the stage of planting seedlings and before flowering, the depth of moisture should be 55 cm³ at an irrigation rate of up to 60 m³ / ha for sandy loam soil. In later stages, the rates will increase and the yield will remain unchanged until harvest.

For light sandy soil with a dense structure, the depth of moisture at the stage of planting seedlings and before flowering should not be less than 50 cm³ with an irrigation rate of 75 m³ / ha.

With this irrigation method, the yield is almost 60% higher compared to irrigation and more than 100% higher than rainfed cultivation. Drip irrigation also significantly reduces the possibility of damaging plants with fungal and bacterial diseases.

Using Drip Irrigation to Grow Polys Crops: In the open field, polys crops have a shallow root system located mainly in the upper soil horizons. An exception is watermelon, whose lateral roots can reach a depth of 4-5 m into the ground. These plants are thermophilic, so they are traditionally grown in arid climates.

The scheme of planting polys crops with drip irrigation: It is the best way to plant with a density of 7.12 - 10.2 thousand plants per hectare. At the same time, the distance between individual plants is about 100 cm, the row spacing is 170 cm and 40 cm.

Irrigation pipes are laid at the same time as planting seeds. If seedling cultivation is used, the installation of the drip irrigation system is carried out before planting the young crop.

Experimental field plot

Conclusion: The result of the study showed that drip irrigation of rice crop leads to water saving and increase in productivity. It is the best way to plant with a density of



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